15feb02 10:42:36 User208669 Session D1960.1 **\$**0.30 0.087 DialUnits File 1

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File 155:MEDLINE(R) 1966-2002/Jan W4

Set Items Description

tems Description

1937 VLP OR VIRUS(W)LIKE(W)PARTIC?

252 EMPTY(N)CAPSID?

2185 SI OR S2

41021 HEPATITIS(W)B

109 S3 AND S4

64 ROTAVIRUS AND S3

3 ALPHAVIRUS AND S3

0 SINDBIS AND S3

14 SEMLIKI AND S3

2977 NONINFECTIOUS OR NON(W)INFECTIOUS

1077 ALPHAVIR? S11

3 S10 AND S11

**S12** 

NORWALK **S13** 

S3 AND S13 **S14** 

3508 FOOT(2W)MOUTH

15 S15 AND S3 **S16** 

220 RETROVIR? AND S3

10 TOBACCO(W)MOSAIC AND S3

3 FLOCK(W)HOUSE AND S3

56899 ENCEPHAL?

41 S20 AND S3 ? t s9/7/3 6

DIALOG(R)File 155:MEDLINE(R)

Villoing S, Bearzotti M; Chilmonczyk S; Castric J; Bremont M Rainbow trout sleeping disease virus is an atypical alphavirus.

Unite de Virologie et Immunologie Moleculaires, Institut National de la

Journal of virology (UNITED STATES) Jan 2000, 74 (1) p173-83, ISSN Recherche Agronomique, 78352 Jouy-en-Josas Cedex, France.

3022-538X Journal Code: KCV

Languages: ENGLISH

Document type: Journal Article Record type: Completed

norphological studies, SD virus (SDV) was shown to be an enveloped virus of sequence of the total 4.1-kb subgenomic RNA has been determined. The 26S replication. The screening of a random-primed cDNA library constructed from roughly 60 nm in diameter. The genome consists of 12 kb of RNA, with the appearance of a 26S subgenomic RNA during the time course of SDV RNA encodes a 1,324-amino-acid polyprotein exhibiting typical alphavirus to the Semliki Forest virus group of alphaviruses, SDV should be considered produced at 14 degrees C. Through biochemical, physicochemical, and specific SDV cDNA clone having an open reading frame related to the alphavirus E2 glycoproteins. To extend the comparison between SDV mutations implicated in the pH threshold. Although phylogenetically related he genomic RNA of semipurified virions facilitated the identification of a individual proteins, (ii) very low homology (ranging from 30 to 34%) (iii) remarkable features compared to other alphaviruses: (i) unusually large been suspected, since virus-like particles have been observed in infected structural proteins and the alphavirus protein counterparts, the nucleotide structural protein organization. SDV structural proteins showed several an unglycosylated E3 protein, and (iv) and E1 fusion domain sharing Sleeping disease (SD) is currently a matter of concern for salmonid fish virus production was observed at 10 degrees C, while little virus was ambow trout cells. In salmonid-derived cell lines, the maximal rate of farmers in most parts of the world. A viral etiology of SD has recently an atypical member, able to naturally replicate in lower vertebrates Record Date Created: 20000110

DIALOG(R)File 155:MEDLINE(R)

Construction and characterization of recombinant VLPs and Semliki-Forest zirus live vectors for comparative evaluation in the SHIV monkey model

Notka F; Stahl-Hennig C; Dittmer U; Wolf H; Wagner R

Biological chemistry (GERMANY) Mar 1999, 380 (3) p341-52, ISSN Institute of Medical Microbiology, University of Regensburg, Germany 431-6730 Journal Code: CK4

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

model, SIVmac239 Pr56gag precursor-based pseudovirions were modified by For testing of recombinant virus-like particles (VLPs) in the SHIV monkey HIV-1 envelope glycoprotein were inserted into the Pr56gag precursor by non-infectious, hybrid VLPs. In a second approach the HIV-1IIIB external HIV-1 gp160 derived peptides. First, well-characterized epitopes from the particle formation. Expression of these chimeric proteins in a baculovirus replacing defined regions that were shown to be dispensable for virus expression system resulted in efficient assembly and release of

he immunological outcome. Challenge of the immunized monkeys with chimeric rhesus monkeys with either naked VLPs or VLPs adsorbed to alum induced transmembrane domain. Coexpression of the hybrid envelope derivative with with the HIV-1 gp120 firmly anchored on the VLP surface. Immunization of cytotoxic T lymphocyte responses. Furthermore, priming macaques with the the Pr56gag precursor yielded recombinant SIV derived Pr56gag particles corresponding set of recombinant Semliki-Forest viruses tended to enhance glycoprotein gp120 was covalently linked to an Epstein-Barr virus derived SHIV resulted in a clearly accelerated reduction of the plasma viremia as substantial serum antibody titers and promoted both T helper cell and compared to control animals.

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Record Date Created: 19990629

?ts18/7/6

**DIALOG(R)File 155:MEDLINE(R)** 

Selective recovery of foreign gene transcripts as virus-like particles in

fMV-infected transgenic tobaccos.

Sleat DE; Gallie DR; Watts JW; Deom CM; Turner PC; Beachy RN; Wilson TM

Department of Virus Research, John Innes Institute, Norwich, UK.

Nucleic acids research (ENGLAND) Apr 25 1988, 16 (8) p3127-40,

SSN 0305-1048 Journal Code: O8I

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

mosaic virus (TMV) RNA, nucleates encapsidation of the 6395-nucleotide-long A short origin-of-assembly sequence (OAS) located in the 30kDa movement of plants transformed by Agrobacterium tunnefaciens, and which contain the Single-stranded RNAs containing a foreign reporter gene sequence and the paper, we show that foreign gene transcripts derived from the nuclear DNA protein gene, about 1.0kb from the 3'-end of the common strain of tobacco IMV OAS, can be assembled into stable pseudovirus particles in vivo structural complementation between a heritable function bestowed on a approach may find wider applications in developmental plant molecular vitro from recombinant SP6-transcription plasmids and will assemble and recover a specific mRNA in vivo, in transgenic plant cells, this novel IMV OAS at their 5' - and 3' -ends, respectively, can be synthesized in genome by TMV coat protein in vitro, and presumably also in vivo. spontaneously in vitro to form TMV-like 'pseudovirus' particles. In this transgenic plant and an infecting virus. As a route to protect, accumulate during a systemic infection by TMV (helper). This is the first report of

Record Date Created: 19880630 ? s flock(w)house and s3

52 FLOCK(W)HOUSE

3 FLOCK(W)HOUSE AND S3 S19

?ts19/6/1-3

Specific packaging of nodaviral RNA2 requires the N-terminus of the capsid protein.

un 20 2001

Virus maturation targets the protein capsid to concerted disassembly and unfolding.

May 26 2000

Imaging RNA and dynamic protein segments with low-resolution virus crystallography: experimental design, data processing and implications of electron density maps.

Dec 18 1998

?ts19/7/1-3

DIALOG(R)File 155:MEDLINE(R)

Specific packaging of nodaviral RNA2 requires the N-terminus of the capsid protein.

Marshall D; Schneemann A

Department of Molecular Biology, The Scripps Research Institute, La

Virology (United States) Jun 20 2001, 285 (1) p165-75, ISSN Jolla, California 92037, USA.

Contract/Grant No.: GM53491, GM, NIGMS 0042-6822 Journal Code: XEA

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

two segments of single-stranded positive-sense RNA, RNA1 and RNA2, which nonenveloped, icosahedral insect virus whose capsids are assembled from 180 synthesis of FHV coat protein in the baculovirus expression system results from those of native virions, although the encapsidated RNA represents Flock house virus (FHV), a member of the family Nodaviridae, is a in assembly of virus-like particles whose capsids are indistinguishable copies of a single type of coat protein. The viral genome is split between are packaged into a single virion. We previously demonstrated that

encapsidation of the two genomic RNAs occurs independently and that the nowever, they contained little RNA2 while packaging of RNA1 was not coat protein uses different regions for the recognition of RNA1 and RNA2. the polymorphism was imposed by the type of RNA that the coat protein affected. Small amounts of defective interfering RNAs, which emerged assembly process. In addition, they demonstrate that the N-terminus of the particles which differ in size, shape, and RNA contents. We postulated that FHV coat protein contains important determinants for recognition and acking N-terminal residues 2-31 results in formation of multiple types of particles had the same shape and dimensions as wt virions. Surprisingly, analyzing the assembly of the mutant coat protein in Drosophila cells in the presence of replicating FHV RNAs. As anticipated, the resulting Taken together, these observations confirm our earlier hypothesis that selected for packaging. In the current study we tested this hypothesis by selection of nonviral RNAs for packaging can significantly alter the primarily cellular RNA. In contrast, expression of a deletion mutant packaging of RNA2. Our results provide the first evidence that rapidly in the presence of the mutant coat protein, were also detected. Copyright 2001 Academic Press.

Record Date Created: 20010620

DIALOG(R)File 155:MEDLINE(R)

Virus maturation targets the protein capsid to concerted disassembly and

Oliveira AC; Gomes AM, Almeida FC; Mohana-Borges R; Valente AP; Reddy VS; ohnson JE; Silva JL

Centro Nacional de Ressonancia Magnetica Nuclear de Macromoleculas, Departamento de Bioquimica Medica, Instituto de Ciencias Biomedicas, Universidade Federal do Rio de Janeiro, 21941-590 Rio de Janeiro, RJ, Journal of biological chemistry (UNITED STATES) May 26 2000, 275 (21) p16037-43, ISSN 0021-9258 Journal Code: HIV

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

folded D75N alpha subunit could reassemble into capsids, whereas the yield of reassembly from unfolded cleaved wt subunits was very low. Overall, our Many animal viruses undergo post-assembly proteolytic cleavage that is virus was evaluated by comparing wild type (wt) and cleavage-defective folded subunits as determined by steady-state and dynamic fluorescence spectroscopy, circular dichroism, and nuclear magnetic resonance. The dissociation and unfolding of the mature wt particle was observed under required for infectivity. The role of maturation cleavage on Flock House treatment by urea, whereas the cleavage-defective mutant dissociated to mutant (D75N) Flock House virus virus-like particles. A concerted

demonstrating the consistency of the two imaging methods. Electron density

closely similar in the cryo-electron microscopy and X-ray maps,

fluorescence and NMR, and the concerted nature of dissociation/unfolding particle for an "off pathway" disassembly, because dissociation is coupled to unfolding. The increased motions in the cleaved capsid, revealed by results demonstrate that the maturation/cleavage process targets the may be crucial to make the mature particle infectious.

Record Date Created: 20000630

OIALOG(R)File 155:MEDLINE(R)

Imaging RNA and dynamic protein segments with low-resolution virus crystallography: experimental design, data processing and implications of electron density maps.

Tsuruta H; Reddy VS; Wikoff WR; Johnson JE

Journal of molecular biology (ENGLAND) Dec 18 1998, 284 (5) p1439-52 SSRL/SLAC, Stanford University, Stanford, CA, 94309-0210, USA.

ISSN 0022-2836 Journal Code: J6V

Contract/Grant No.: AJ40101, AJ, NIAID; GM54076, GM, NIGMS

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

double-stranded DNA bacteriophage HK97 and synthetic Flock House virus-like Difference electron density maps corresponding to bulk RNA were computed by used to compute phases for measured amplitudes between 270 and 68 A map displayed regions interpretable as loosely ordered RNA that connected from the Fourier transform of a uniform density sphere of 315 A diameter. A ordered RNA segments seen in a published 3.0 A resolution map. The rotation function computed with the sFHV data between 70 and 20 A resolution was readily interpretable. A uniform density sphere model was resolution with real space averaging employing an external mask shape particles (sFHV). The quality of the low-resolution measurements was published high-resolution electron density map lacked data inside 15 A nigh-resolution atomic model, from either the cryo-electron microscopy small-angle scattering instrument adapted for single crystal measurements. esolution range of 270 to 14 A using a synchrotron X-ray source and a amplitudes between 270 and 90 A resolution were closely similar to resolution. The calculated phases were refined and extended to 14 A density or the low-resolution X-ray density. Features of the RNA were independently measured solution scattering data, and to data calculated defined by the high-resolution structure. The resulting electron density confirmed by excellent scaling statistics for both data sets. The sFHV resolution and the interior of the particle in that map appeared hollow. subtracting the contribution of the protein shell, based on the available Reflections were measured from single crystals of the capsid of the Single crystal diffraction data were collected from virus crystals in the

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maps computed at 14 and 6 A resolution with the X-ray amplitudes showed that RNA contributed little to the scattering beyond 14 A resolution.

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15feb02 10:55:27 User208669 Session D1960.2
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$1.26 6 Type(s) in Format 7
$1.26 115 Types
$11.10 Estimated cost File155
$0.86 TYMNET
$11.96 Estimated cost this search
$12.26 Estimated total session cost 3.161 DialUnits
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